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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Name of product**

WEICON WP Hardener

Code-Nr. 104902

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Uses advised against**

**Remark**

Do not use for private purposes (household).

**Recommended intended purpose(s)**

2-Component Epoxy Resin - Hardener Component

### 1.3. Details of the supplier of the safety data sheet

**Distributor**

WEICON GmbH & Co. KG

Königsberger Str. 255, DE-48157 Münster

Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244

E-Mail : [msds@weicon.de](mailto:msds@weicon.de)

Internet : [www.weicon.de](http://www.weicon.de)

**Advice**

Produktsicherheit / Product-Safety-Department

Phone : +49(0)251 / 9322 - 0

Fax : +49(0)251 / 9322 - 244

E-mail (competent person):

[msds@weicon.de](mailto:msds@weicon.de)

### 1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:

++44 1865 407333 (English)

TRANSPORT EMERGENCY CONTACT - UK, UAE, South

Africa (24h): Tel: ++44 1865 407333 (English)

**Manufacturer**

WEICON GmbH & Co. KG

Königsberger Str. 255, DE-48157 Münster

### 1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):

Tel: ++49 69 222 25285 (Deutsch, Englisch)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories

Hazard Statements Classification procedure

Skin Corr. 1B

H314

Eye Dam. 1

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Sens. 1	H317	
Aquatic Chronic 3	H412	

**Hazard Statements**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**
**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**


GHS05



GHS07

**! Signal word**

Danger

**Hazard Statements**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P102	Keep out of reach of children.
P260	Do not breathe vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to hazardous or special waste collection point.

**! Hazardous ingredients for labeling**

3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine), Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

**2.3. Other hazards**

**! Information pertaining to special dangers for human and environment**

Risk of serious damage to eyes.

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**! SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Description**

Preparation of different active substances

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
100-51-6	202-859-9	benzyl-alcohol	1 < 5	Acute Tox. 4, H332 / Acute Tox. 4, H302
140-31-8	205-411-0	2-piperazin-1-ylethylamine	< 1	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1 < 5	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
1477-55-0	216-032-5	M-phenylenebis (methylamine)	< 1	Acute Tox. 4, H302, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 / , EUH071
61788-44-1	262-975-0	Phenol, styrenated	< 1	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
186321-96-0		Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	1 < 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1
113930-69-1	500-302-7	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	5 < 10	Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Acute 2, H401 / Aquatic Chronic 2, H411

**REACH**

CAS No	Name	REACH registration number
100-51-6	benzyl-alcohol	01-2119492630-38
140-31-8	2-piperazin-1-ylethylamine	01-2119471486-30
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	01-2119514687-32
1477-55-0	M-phenylenebis (methylamine)	01-2119480150-50
61788-44-1	Phenol, styrenated	01-2119980970-27
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	01-2119983521-35
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	01-2119965162-39

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.



**In case of skin contact**

In case of contact with skin wash off with warm water.  
Consult a doctor if skin irritation persists.

**In case of eye contact**

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

**In case of ingestion**

Do not induce vomiting.  
Call for a doctor immediately.  
Rinse out mouth and give plenty of water to drink.

**4.2. Most important symptoms and effects, both acute and delayed**

**Physician's information / possible symptoms**

vomiting  
Respiratory complaints  
Allergic symptoms  
Skin burns  
Nausea  
skin irritation

**Physician's information / possible dangers**

Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam  
Dry fire-extinguishing substance  
Carbon dioxide  
Water spray jet

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

**Additional information**

Collect contaminated firefighting water separately, must not be discharged into the drains.



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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

High risk of slipping due to leakage/spillage of product.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

### 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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## ! SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Open and handle container with care!

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

Pay attention to general rules of internal fire prevention.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in closed original container.

#### Advice on storage compatibility

Do not store with acids.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

#### Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

Store in a dry place.

Protect from heat/overheating.

**7.3. Specific end use(s)****Recommendation(s) for intended use**

See section 1.2

**! SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	0,04 mg/cm <sup>2</sup>	DNEL acute dermal, short-term (local)	
		21,4 mg/m <sup>3</sup>	DNEL acute inhalative (systemic)	
		20 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
1477-55-0	M-phenylenebis (methylamine)	0,2 mg/m <sup>3</sup>	DNEL long-term inhalative (local)	
		0,33 mg/kg	DNEL long-term dermal (systemic)	
		1,2 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	3,33 mg/kg bw/day	DNEL long-term dermal (systemic)	
		23,5 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	215 mg/kg	PNEC sediment, freshwater	
		0,058 mg/l	PNEC aquatic, freshwater	
		0,0058 mg/l	PNEC aquatic, marine water	
		21,5 mg/kg	PNEC sediment, marine water	
		250 mg/l	PNEC sewage treatment plant (STP)	
1477-55-0	M-phenylenebis (methylamine)	0,094 mg/l	PNEC soil, freshwater	
		10 mg/l	PNEC sewage treatment plant (STP)	
		0,009 mg/l	PNEC soil, marine water	
		0,43 mg/kg	PNEC sediment, freshwater	
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	0,005 mg/kg	PNEC sediment, freshwater	
		1,58 mg/l	PNEC sewage treatment plant (STP)	
		0,019 µg/l	PNEC aquatic, marine water	
		0,186 µg/l	PNEC aquatic, freshwater	
		0,00089 mg/kg	PNEC soil, freshwater	
		0,005 mg/kg	PNEC sediment, marine water	

**! Additional advice**

The statutory local and national regulations have to be observed.

**8.2. Exposure controls****! Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Short term: filter apparatus, combination filter A-P2

**! Hand protection**

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

**Appropriate engineering controls**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**! SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

pasty

**Colour**

black

**Odour**

similar to amine

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 11	20 °C			1:1 in water
<b>boiling point</b>	not determined				
<b>melting point</b>	not determined				
<b>Flash point</b>	> 100 °C				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>					No data available
<b>Flammability (gas)</b>					No data available
<b>Ignition temperature</b>					No data available
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>					No data available
<b>Upper explosion limit</b>					No data available



# Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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## WEICON WP Hardener

	Value	Temperature	at	Method	Remark
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	ca. 2,5 g/cm <sup>3</sup>				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					partially soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	ca. 500 mPa*s	25 °C			
<b>Viscosity kinematic</b>	not determined				

### Oxidising properties

No information available.

### Explosive properties

no

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Reactions with acids.

Reactions with oxidising agents.

### 10.4. Conditions to avoid

Keep away from heat.

High air humidity

### 10.5. Incompatible materials

#### Substances to avoid

Acid

Oxidising agent

Moisture.

### 10.6. Hazardous decomposition products

Gases/vapours, corrosive

Gases/vapours, toxic

Carbon monoxide and carbon dioxide.

Nitrous oxides (NO<sub>x</sub>)



**Thermal decomposition**

Remark No decomposition if used as directed.

**! SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	1030 mg/kg	rat	OECD 401	CAS: 2855-13-2
<b>LD50 acute dermal</b>	866 mg/kg	rabbit		CAS: 140-31-8
<b>LC50 acute inhalation</b>	1,34 mg/l (4 h)	rat		CAS: 1477-55-0
<b>Skin irritation</b>	corrosive			
<b>Eye irritation</b>	corrosive			
<b>Skin sensitization</b>	sensitizing			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>				No data available
<b>Subchronic Toxicity</b>				No data available
<b>Chronic Toxicity</b>				No data available
<b>Mutagenicity</b>				No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>				No indications of toxic effects were observed in reproduction studies in animals.
<b>Carcinogenicity</b>				No indications of carcinogenic effects are available from long-term trials.

**Experiences made from practice**

Corrosive effect on skin and mucous membrane.

Sensitization through skin contact possible.

Causes corrosions.

**Additional information**

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.

**! SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 1,806 mg/l (96 h)	Fish		CAS: 186321-96-0
<b>Daphnia</b>	EC50 0,705 mg/l (48 h)	Daphnia magna		CAS: 186321-96-0
<b>Algae</b>	ErC50 0,186 mg/l (72)	Green algae		CAS: 186321-96-0
<b>Bacteria</b>	EC50 157,6 g/m3		OECD 209	CAS: 186321-96-0

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	9 % (28 d) CAS: 186321-96-0			not readily degradable

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects****General regulation**

Harmful to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

**! SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendations for the product**

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

**! Recommendations for packaging**

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

**General information**

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	2735	2735	2735



	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.2. UN proper shipping name</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes
<b>14.6. Special precautions for user</b>	No information available.		
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	not applicable		
<b>Land and inland navigation transport ADR/RID</b>			
Hazard label(s)	8		
tunnel restriction code	E		
Classification code	C7		

## ! SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### VOC standard

VOC content 0 %

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Training advice

The product is intended only for the industrial/professional use.

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

For industrial use only.

### Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.1

EUH071 Corrosive to the respiratory tract.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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**WEICON WP Hardener**

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H302	Harmful if swallowed.
H302,	-?-
<b>H332</b>	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H401	-?-
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.